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mind to a high degree the importance of the social and economic study of the relations of food and diet to the labor power, health and moral tone of communities and the scientific studies of dietaries begun in a small way developed into a large investigation of the dietetic conditions obtaining in various parts of the United States. Special appropriations were secured from Congress to study the nutrition of man and the whole enterprise soon partook of the nature of an extensive cooperative study of food and diet. These studies were carried out with the active assistance of various investigators in numerous universities and colleges and they extended literally from Maine to California.

In company with his colleague, Dr. E. B. Rosa, he developed at Wesleyan University a respiration calorimeter for experiments with man, in which many researches into the fundamental laws of metabolism have been made. Perhaps the investigation of greatest theoretical interest is the series of experiments made with this apparatus demonstrating that the law of the conservation of energy obtained in the physiological transformations of the living body.

An investigation into the nutritive value of alcohol made with this apparatus by the aid of grants from the Committee of Fifty for the Investigation of Alcohol attracted much notice, both in America and in Europe, and Professor Atwater soon began an active campaign in the interest of rational temperance reform.

Professor Atwater was a member of a large number of scientific societies and kindred institutions. He was a foreign member of the Swedish Royal Academy of Agriculture and a corresponding member of the Russian Imperial Military Academy. His chemical, agricultural and economic writings have been translated into several foreign languages and few American scientists were better known abroad than was he. His writings number somewhat over 100 papers and cover a large field.

It was perhaps as an administrative officer and organizer that Professor Atwater rendered the greatest service to American science, and

he will always be noted for the establishment of the experiment station movement. As the first director of the Office of Experiment Stations, he chose as his assistants Dr. A. W. Harris, now president of Northwestern University, who became his immediate successor, and Dr. A. C. True, now director of the Office of Experiment Stations. Thus, in large measure, the policy which he inaugurated has been continued from the creation of this office.

Of remarkable activity and energy, Professor Atwater attracted many young men to his laboratory and his loss will be especially felt by all those who have had the good fortune to have come under his influence during his active career as a director of research for more than thirty years.

F. G. B.

SCIENTIFIC NOTES AND NEWS

THE memorial statue of Joseph Leidy, the eminent anatomist and zoologist, erected on the west side of the City Hall Plaza, Philadelphia, will be unveiled at 3 P.M. on Wednesday, October 30. Addresses will be made by Mr. Joseph Wharton and Professor Henry C. Chapman, M.D.

DR. G. HELLMANN has been appointed professor of meteorology in the University of Berlin and director of the Prussian Meteorological Service, in succession to the late Professor von Bezold.

ON the occasion of the recent celebration of the centenary of the Geological Society of London, the gold medal of the Institution of Mining and Metallurgy was presented to Sir Archibald Geikie, the president of the society.

PRESIDENT HADLEY, of Yale University, has sailed for Germany, to spend six months as Roosevelt professor of American history and institutions in the University of Berlin, on the Columbia University foundation.

DR. ROBERT F. WEIR and Dr. Charles McBurney, professors of clinical surgery, have been made emeritus professors of surgery at the College of Physicians and Surgeons, Columbia University.

DR. G. N. STEWART, professor of physiology at Western Reserve University, has leave of

absence during the present academic year, which he will spend in research in Vienna.

PROFESSOR GEORGE F. FULLERTON, professor of philosophy in Columbia University, has been given leave of absence and is spending the present year at Munich. His courses are given by Professor Arthur O. Lovejoy, of Washington University.

PROFESSOR WILLIAM A. HAMMOND, of Cornell University, will lecture throughout the year at the University of Pennsylvania on ancient and medieval philosophy.

MR. C. C. ROBERTSON, of the Yale Forestry School, after a tour of the European forests, will engage in government forestry work in Orange River Colony, South Africa.

PROFESSOR AUSTIN CARY, of Harvard University, has been engaged by the Maine State Forestry Commission for a series of lectures covering several weeks, during which time he will speak before granges, schools and other audiences in cities and towns in all parts of the state. Professor Cary will commence his tour during the first week of November.

DR. A. A. MACDONELL, Boden professor of Sanskrit at Oxford, has left England on leave of absence for India and Ceylon in furtherance of Sanskrit research. All the most important Sanskrit libraries, archeological sites and museums, and university colleges in India and Ceylon will be visited, and conferences will be held with native scholars. One of the objects of the tour is to acquire old Sanskrit manuscripts where opportunity offers, and another to collect material for a Dictionary of Indian Religion and Mythology, illustrated and treated historically.

DR. GEORGE BYRON GORDON, curator of the section of American archeology at the Museum of Arts and Sciences of the University of Pennsylvania, has been making explorations among the Indian tribes of Alaska, and has secured many valuable specimens.

DR. WILLIAM H. NICHOLS, chairman of the board of directors of the General Chemical Company, gave the address at the Founder's Day celebration at Lehigh University on October 10.

DR. JOSEPH W. RICHARDS, of Lehigh University, lectured before the Franklin Institute of Philadelphia, on October 10, on the "Thermo-electric Production of Iron and Steel."

BIRMINGHAM UNIVERSITY has arranged a course of lectures during the coming session, especially in the interests of the industrial classes, on the lines followed in an experimental series last winter. The principal, Sir Oliver Lodge, will deal in five divisions with "Pioneers of Science," and other lectures will be delivered by Professor J. H. Poynting, Professor C. Lapworth and Professor T. Turner. Some of the subjects included in the lectures have special reference to local industries.

A COURSE in experimental physiology, under the direction of Professor Graham Lusk, is offered to teachers on Fridays at three o'clock, at University and Bellevue Hospital Medical College, 338 East 26th street, New York City.

THE program of the Harvey Society course of lectures for the coming year is as follows:

October 26—Professor E. O. Jordan, University of Chicago: "The Problems of Sanitation."

November 16—Professor James Ewing, Cornell University: "Etiology of Tumors."

November 30—Professor D. L. Edsall, University of Pennsylvania: "The Bearing of Metabolism Studies on Clinical Medicine."

January 11—Professor Ernest H. Starling, University of London: "The Chemical Control of the Body."

January 25—Professor George W. Crile, Western Reserve University: "Shock."

February 8—Professor Joseph Jastrow, University of Wisconsin: "Subconsciousness."

February 22—Professor Otto Folin, Harvard University: "Problems of Chemistry in Hospital Practise."

March 7—Professor Ross G. Harrison, Yale University: "Embryonic Transplantation and the Development of the Nervous System."

April 11—Professor E. A. Schäfer, University of Edinburgh: "Artificial Respiration in Man."

The lectures are given under the patronage of the New York Academy of Medicine and are held at the Academy Building, 17 West 43d street, on Saturday evenings at 8:30

o'clock. All interested are cordially invited to attend them.

THE committee on the Mary Putnam Jacobi fellowship announces that \$8,000 of the \$25,000 required has been raised. The fund is expected to provide an income of \$1,000, whereby efficient aid may be rendered to post-graduate women students in medicine. The Women's Medical Association of New York City invites the cooperation of all who desire to further the higher medical education of women in medicine. The treasurer of the association is Dr. Eleanor Tomes, 136 East Thirtieth street.

PROFESSOR CHARLES STEWART, F.R.S., for the past twenty-three years conservator of the museum of the Royal College of Surgeons of England, died on September 27. He was also for a long time Hunterian professor of human and comparative anatomy at the college, and had been Fullerian professor of physiology at the Royal Institution.

THE Berlin Cancer Institute, which is under the direction of Professor von Leyden, is to be considerably enlarged. New laboratories for the investigation of cancer will, it is announced, be built in a house in the neighborhood of the Charité Hospital.

THE New England Federation of Natural History Societies met in Portland, Me., on Friday and Saturday, October 4 and 5. The federation was the guest of the Portland Society of Natural History, an old association of which Stimpson, Mighels, Fuller and Morse were earlier members. About twenty delegates were present, representing as many of the affiliated associations. Exhibits were shown by the Appalachian Mountain Club of Mount Washington flora; Dr. D. W. Fellows, ferns and grasses of Maine; Mrs. J. H. Lewis, moths of Maine; Fairbanks Museum, St. Johnsbury, Vt., alpine plants; J. H. Emerton, Boston, spiders; Miss Cherrington and Miss Clapp, of Boston, mosses of New England, and others. The meeting of Friday evening was by the Portland society, with President Leslie A. Lee, of Brunswick, in the chair, Major J. W. Boyd (archeology) and J. H. Emerton

(spiders) being the speakers. On Saturday evening the meeting was of the federation, with Miss Delia I. Griffin, of St. Johnsbury, on the relations between the small museum and the school children, and Miss M. Edna Cherrington on mosses. On Saturday afternoon a joint outing of the society and the federation made a trip to the shore, where more than a score of unusual species were found in the tide-pools. On Sunday, on invitation of Professor Lee, the delegates visited the museums and laboratories of Bowdoin College. The president of the federation is John Ritchie, Jr., and the secretary, J. H. Emerton, both of Boston. The annual meeting of the federation is set for April, in Boston, and a special meeting will be convened the first week in July on the summit of Mount Washington, where an unusual opportunity will be afforded to study the fauna, flora, topography and geology of the presidential range.

THE seventh Annual Conference of the Sanitary Officers of the State of New York, under the auspices of the New York State Department of Health, will be held at Buffalo from October 16 to 18. There will be an opening address by Dr. Eugene H. Porter, commissioner of health, and by Governor Hughes. A number of papers of scientific importance will be presented during the six following sessions of the congress.

UNIVERSITY AND EDUCATIONAL NEWS

MR. JOHN D. ROCKEFELLER has undertaken to triple gifts made for the memorial library to be erected at the University of Chicago in honor of William Rainey Harper. The sum of \$110,000 has been subscribed for the memorial from various sources, and Mr. Rockefeller has given \$330,000. He will triple further gifts, not exceeding \$90,000, thus making his total contribution \$600,000.

PROFESSOR JOHN HAYES HAMMOND has given an additional \$5,000 for the further equipment of the Hammond Metallurgical Laboratory of the Sheffield Scientific School of Yale University. This makes Professor Hammond's gift to the laboratory \$127,000. The Sheffield Sci-